Peter Setlow

List of Publications by Year
in descending order

400	26,133	6233 80	11288 136
papers	citations	h-index	g-index

408	408	408	9244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resistance properties and the role of the inner membrane and coat of Bacillus subtilis spores with extreme wet heat resistance. Journal of Applied Microbiology, 2022, 132, 2157-2166.	1.4	8
2	Heat Activation and Inactivation of Bacterial Spores: Is There an Overlap?. Applied and Environmental Microbiology, 2022, 88, aem0232421.	1.4	12
3	Mechanisms and Applications of Bacterial Sporulation and Germination in the Intestine. International Journal of Molecular Sciences, 2022, 23, 3405.	1.8	13
4	Organization and dynamics of the SpoVAEa protein and its surrounding inner membrane lipids, upon germination of Bacillus subtilis spores. Scientific Reports, 2022, 12, 4944.	1.6	5
5	Visualization of SpoVAEa Protein Dynamics in Dormant Spores of <i>Bacillus cereus</i> and Dynamic Changes in Their Germinosomes and SpoVAEa during Germination. Microbiology Spectrum, 2022, 10, e0066622.	1.2	3
6	Quasi-chemical Germination Kinetics (QCGK) modeling of HPP germination of bacterial spores and the effects of lowering water activity by nonelectrolytic humectants. , 2021, , 130-140.		0
7	Identification of Native Cross-Links in <i>Bacillus subtilis</i> Spore Coat Proteins. Journal of Proteome Research, 2021, 20, 1809-1816.	1.8	9
8	Molecular Physiological Characterization of a High Heat Resistant Spore Forming Bacillus subtilis Food Isolate. Microorganisms, 2021, 9, 667.	1.6	13
9	Predicting the Structure and Dynamics of Membrane Protein GerAB from Bacillus subtilis. International Journal of Molecular Sciences, 2021, 22, 3793.	1.8	6
10	Properties of spores of Bacillus subtilis with or without a transposon that decreases spore germination and increases spore wet heat resistance. Journal of Applied Microbiology, 2021, 131, 2918-2928.	1.4	10
11	Levels and Characteristics of mRNAs in Spores of Firmicute Species. Journal of Bacteriology, 2021, 203, e0001721.	1.0	1
12	Dodecylamine rapidly kills of spores of multiple Firmicute species: properties of the killed spores and the mechanism of the killing. Journal of Applied Microbiology, 2021, 131, 2612-2625.	1.4	5
13	High Resolution Analysis of Proteome Dynamics during Bacillus subtilis Sporulation. International Journal of Molecular Sciences, 2021, 22, 9345.	1.8	8
14	Whatâ€™s new and notable in bacterial spore killing!. World Journal of Microbiology and Biotechnology, 2021, 37, 144.	1.7	22
15	Characterization of Heterogeneity and Dynamics of Lysis of Single <i>Bacillus subtilis</i> Cells upon Prophage Induction During Spore Germination, Outgrowth, and Vegetative Growth Using Raman Tweezers and Live-Cell Phase-Contrast Microscopy. Analytical Chemistry, 2021, 93, 1443-1450.	3.2	5
16	Dynamics of Germinosome Formation and FRET-Based Analysis of Interactions between GerD and Germinant Receptor Subunits in Bacillus cereus Spores. International Journal of Molecular Sciences, 2021, 22, 11230.	1.8	5
17	Mechanisms of killing of <i>Bacillus thuringiensis</i> Al Hakam spores in a blast environment with and without iodic acid. Journal of Applied Microbiology, 2020, 128, 1378-1389.	1.4	6
18	Bacterial Spore mRNA â€“ Whatâ€™s Up With That?. Frontiers in Microbiology, 2020, 11, 596092.	1.5	13

#	Article	IF	Citations
19	Integrative Analysis of Proteome and Transcriptome Dynamics during Bacillus subtilis Spore Revival. MSphere, 2020, 5, .	1.3	24
20	Visualization of Germination Proteins in Putative Bacillus cereus Germinosomes. International Journal of Molecular Sciences, 2020, 21, 5198.	1.8	12
21	Bacillus spore germination: Knowns, unknowns and what we need to learn. Cellular Signalling, 2020, 74, 109729.	1.7	68
22	Investigating Synthesis of the MalS Malic Enzyme during Bacillus subtilis Spore Germination and Outgrowth and the Influence of Spore Maturation and Sporulation Conditions. MSphere, 2020, 5, .	1.3	5
23	Analysis of 5â€²-NAD capping of mRNAs in dormant spores of <i>Bacillus subtilis</i>. FEMS Microbiology Letters, 2020, 367, .	0.7	6
24	Analysis of disulphide bond linkage between CoA and protein cysteine thiols during sporulation and in spores of <i>Bacillus</i> species. FEMS Microbiology Letters, 2020, 367, .	0.7	6
25	Killing of bacterial spores by dodecylamine and its effects on spore inner membrane properties. Journal of Applied Microbiology, 2020, 129, 1511-1522.	1.4	18
26	Lack of efficient killing of purified dormant spores of Bacillales and Clostridiales species by glycerol monolaurate in a nonâ€•aqueous gel. Letters in Applied Microbiology, 2020, 70, 407-412.	1.0	3
27	A live-cell super-resolution technique demonstrated by imaging germinosomes in wild-type bacterial spores. Scientific Reports, 2020, 10, 5312.	1.6	17
28	Applications of Bacillus subtilis Spores in Biotechnology and Advanced Materials. Applied and Environmental Microbiology, 2020, 86, .	1.4	41
29	DNA Damage Kills Bacterial Spores and Cells Exposed to 222-Nanometer UV Radiation. Applied and Environmental Microbiology, 2020, 86, .	1.4	51
30	Engineering Bacillus subtilis as a Versatile and Stable Platform for Production of Nanobodies. Applied and Environmental Microbiology, 2020, 86, .	1.4	16
31	Observations on research with spores of Bacillales and Clostridiales species. Journal of Applied Microbiology, 2019, 126, 348-358.	1.4	52
32	Accumulation and Release of Rare Earth Ions by Spores of <i>Bacillus</i> Species and the Location of These Ions in Spores. Applied and Environmental Microbiology, 2019, 85, .	1.4	7
33	Mechanisms of enhanced bacterial endospore inactivation during sterilization by ohmic heating. Bioelectrochemistry, 2019, 130, 107338.	2.4	19
34	Mechanism of inactivation of Bacillus subtilis spores by high pressure CO2 at high temperature. Food Microbiology, 2019, 82, 36-45.	2.1	11
35	Structural and functional analyses of the N-terminal domain of the A subunit of a <i>Bacillus megaterium</i> spore germinant receptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11470-11479.	3.3	14
36	Effects of the microbicide ceragenin CSAâ€•13 on and properties ofBacillus subtilisspores prepared on two very different media. Journal of Applied Microbiology, 2019, 127, 109-120.	1.4	4

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37	Properties of Aged Spores of Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	1.0	21
38	Visualization of Germinosomes and the Inner Membrane in Bacillus subtilis Spores. Journal of Visualized Experiments, 2019, , .	0.2	10
39	Killing of spores of<i>Bacillus</i>species by cetyltrimethylammonium bromide. Journal of Applied Microbiology, 2019, 126, 1391-1401.	1.4	12
40	YwqL (EndoV), ExoA and PolA act in a novel alternative excision pathway to repair deaminated DNA bases in Bacillus subtilis. PLoS ONE, 2019, 14, e0211653.	1.1	5
41	Analysis of the mRNAs in Spores of Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	1.0	18
42	Bacillus subtilis Spore Resistance to Simulated Mars Surface Conditions. Frontiers in Microbiology, 2019, 10, 333.	1.5	44
43	Fluoride movement into and out ofBacillusspores and growing cells and effects of fluoride accumulation on spore properties. Journal of Applied Microbiology, 2019, 126, 503-515.	1.4	3
44	Deposition of Bacteria and Bacterial Spores by Bathroom Hot-Air Hand Dryers. Applied and Environmental Microbiology, 2018, 84, .	1.4	15
45	Effects of lowering water activity by various humectants on germination of spores of Bacillus species with different germinants. Food Microbiology, 2018, 72, 112-127.	2.1	22
46	Germination, Outgrowth, and Vegetative-Growth Kinetics of Dry-Heat-Treated Individual Spores of Bacillus Species. Applied and Environmental Microbiology, 2018, 84, .	1.4	13
47	Transcriptional coupling (Mfd) and <scp>DNA</scp> damage scanning (DisA) coordinate excision repair events for efficient <i>Bacillus subtilis</i> spore outgrowth. MicrobiologyOpen, 2018, 7, e00593.	1.2	10
48	Experimental studies addressing the longevity of Bacillus subtilis spores â€“ The first data from a 500-year experiment. PLoS ONE, 2018, 13, e0208425.	1.1	56
49	Single-cell analysis reveals individual spore responses to simulated space vacuum. Npj Microgravity, 2018, 4, 26.	1.9	9
50	Role of DNA Repair and Protective Components in Bacillus subtilis Spore Resistance to Inactivation by 400-nm-Wavelength Blue Light. Applied and Environmental Microbiology, 2018, 84, .	1.4	30
51	Intracellular membranes of bacterial endospores are reservoirs for spore core membrane expansion during spore germination. Scientific Reports, 2018, 8, 11388.	1.6	25
52	A <i>Clostridium difficile</i> -Specific, Gel-Forming Protein Required for Optimal Spore Germination. MBio, 2017, 8, .	1.8	37
53	An improved protocol for harvesting Bacillus subtilis colony biofilms. Journal of Microbiological Methods, 2017, 134, 7-13.	0.7	9
54	A Quasi-chemical Model for Bacterial Spore Germination Kinetics by High Pressure. Food Engineering Reviews, 2017, 9, 122-142.	3.1	14

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55	Spore photoproduct within DNA is a surprisingly poor substrate for its designated repair enzymeâ€"The spore photoproduct lyase. DNA Repair, 2017, 53, 31-42.	1.3	4
56	Germination of Spores of the Orders <i>Bacillales</i> and <i>Clostridiales</i>. Annual Review of Microbiology, 2017, 71, 459-477.	2.9	170
57	Killing the spores of <i>Bacillus</i> species by molecular iodine. Journal of Applied Microbiology, 2017, 122, 54-64.	1.4	18
58	Analysis of killing of growing cells and dormant and germinated spores of Bacillus species by black silicon nanopillars. Scientific Reports, 2017, 7, 17768.	1.6	20
59	Analysis of the Germination of Individual Clostridium sporogenes Spores with and without Germinant Receptors and Cortex-Lytic Enzymes. Frontiers in Microbiology, 2017, 8, 2047.	1.5	21
60	Levels of L-malate and other low molecular weight metabolites in spores of Bacillus species and Clostridium difficile. PLoS ONE, 2017, 12, e0182656.	1.1	9
61	Analysis of <i>Î±</i> -glucosidase enzyme activity used in a rapid test for steam sterilization assurance. Journal of Applied Microbiology, 2016, 120, 1326-1335.	1.4	7
62	Assessing the activity of microbicides against bacterial spores: knowledge and pitfalls. Journal of Applied Microbiology, 2016, 120, 1174-1180.	1.4	27
63	Mechanism of <i>Bacillus subtilis</i> spore inactivation by and resistance to supercritical CO₂ plus peracetic acid. Journal of Applied Microbiology, 2016, 120, 57-69.	1.4	59
64	Effects of steam autoclave treatment on <i>Geobacillus stearothermophilus</i> spores. Journal of Applied Microbiology, 2016, 121, 1300-1311.	1.4	25
65	Use of Raman Spectroscopy and Phase-Contrast Microscopy To Characterize Cold Atmospheric Plasma Inactivation of Individual Bacterial Spores. Applied and Environmental Microbiology, 2016, 82, 5775-5784.	1.4	39
66	<i>Bacillus</i> spore wet heat resistance and evidence for the role of an expanded osmoregulatory spore cortex. Letters in Applied Microbiology, 2016, 63, 247-253.	1.0	9
67	Changes in Bacillus Spore Small Molecules, rRNA, Germination, and Outgrowth after Extended Sublethal Exposure to Various Temperatures: Evidence that Protein Synthesis Is Not Essential for Spore Germination. Journal of Bacteriology, 2016, 198, 3254-3264.	1.0	32
68	Aag Hypoxanthine-DNA Glycosylase Is Synthesized in the Forespore Compartment and Involved in Counteracting the Genotoxic and Mutagenic Effects of Hypoxanthine and Alkylated Bases in DNA during Bacillus subtilis Sporulation. Journal of Bacteriology, 2016, 198, 3345-3354.	1.0	10
69	Effects of High-Pressure Treatment on Spores of Clostridium Species. Applied and Environmental Microbiology, 2016, 82, 5287-5297.	1.4	32
70	Water and Small-Molecule Permeation of Dormant Bacillus subtilis Spores. Journal of Bacteriology, 2016, 198, 168-177.	1.0	35
71	A Cumulative Spore Killing Approach: Synergistic Sporicidal Activity of Dilute Peracetic Acid and Ethanol at Low pH Against Clostridium difficile and Bacillus subtilis Spores. Open Forum Infectious Diseases, 2016, 3, ofv206.	0.4	10
72	Improvement of Biological Indicators by Uniformly Distributing Bacillus subtilis Spores in Monolayers To Evaluate Enhanced Spore Decontamination Technologies. Applied and Environmental Microbiology, 2016, 82, 2031-2038.	1.4	37

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73	Uptake and levels of the antibiotic berberine in individual dormant and germinating<i>Clostridium difficile</i>and<i>Bacillus cereus</i>spores as measured by laser tweezers Raman spectroscopy. Journal of Antimicrobial Chemotherapy, 2016, 71, 1540-1546.	1.3	19
74	Characterization of germinants and their receptors for spores of non-food-borne Clostridium perfringens strain F4969. Microbiology (United Kingdom), 2016, 162, 1972-1983.	0.7	8
75	The RecA-Dependent SOS Response Is Active and Required for Processing of DNA Damage during Bacillus subtilis Sporulation. PLoS ONE, 2016, 11, e0150348.	1.1	13
76	Photochemistry and Photobiology of the Spore Photoproduct: A 50â€Year Journey. Photochemistry and Photobiology, 2015, 91, 1263-1290.	1.3	50
77	Fighting Ebola with novel spore decontamination technologies for the military. Frontiers in Microbiology, 2015, 6, 663.	1.5	15
78	The GerW Protein Is Not Involved in the Germination of Spores of Bacillus Species. PLoS ONE, 2015, 10, e0119125.	1.1	4
79	Uptake of and Resistance to the Antibiotic Berberine by Individual Dormant, Germinating and Outgrowing Bacillus Spores as Monitored by Laser Tweezers Raman Spectroscopy. PLoS ONE, 2015, 10, e0144183.	1.1	8
80	Analysis of Metabolism in Dormant Spores of Bacillus Species by ³¹ P Nuclear Magnetic Resonance Analysis of Low-Molecular-Weight Compounds. Journal of Bacteriology, 2015, 197, 992-1001.	1.0	49
81	Slow Leakage of Ca-Dipicolinic Acid from Individual Bacillus Spores during Initiation of Spore Germination. Journal of Bacteriology, 2015, 197, 1095-1103.	1.0	36
82	Analysis of the Dynamics of a Bacillus subtilis Spore Germination Protein Complex during Spore Germination and Outgrowth. Journal of Bacteriology, 2015, 197, 252-261.	1.0	15
83	Characterization of the Dynamic Germination of Individual Clostridium difficile Spores Using Raman Spectroscopy and Differential Interference Contrast Microscopy. Journal of Bacteriology, 2015, 197, 2361-2373.	1.0	60
84	Location and stoichiometry of the protease CspB and the cortex-lytic enzyme SleC in Clostridium perfringens spores. Food Microbiology, 2015, 50, 83-87.	2.1	21
85	The Effects of Heat Activation on Bacillus Spore Germination, with Nutrients or under High Pressure, with or without Various Germination Proteins. Applied and Environmental Microbiology, 2015, 81, 2927-2938.	1.4	87
86	Involvement of Coat Proteins in Bacillus subtilis Spore Germination in High-Salinity Environments. Applied and Environmental Microbiology, 2015, 81, 6725-6735.	1.4	11
87	Memory of Germinant Stimuli in Bacterial Spores. MBio, 2015, 6, e01859-15.	1.8	19
88	Unlocking the Sporicidal Potential of Ethanol: Induced Sporicidal Activity of Ethanol against Clostridium difficile and Bacillus Spores under Altered Physical and Chemical Conditions. PLoS ONE, 2015, 10, e0132805.	1.1	17
89	Morphogenesis and Properties of the Bacterial Spore. , 2014, , 191-218.		30
90	High pressure germination of<i>Bacillus subtilis</i>spores with alterations in levels and types of germination proteins. Journal of Applied Microbiology, 2014, 117, 711-720.	1.4	37

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91	Resistance of Bacillus subtilis Spore DNA to Lethal Ionizing Radiation Damage Relies Primarily on Spore Core Components and DNA Repair, with Minor Effects of Oxygen Radical Detoxification. Applied and Environmental Microbiology, 2014, 80, 104-109.	1.4	67
92	Monitoring Rates and Heterogeneity of High-Pressure Germination of Bacillus Spores by Phase-Contrast Microscopy of Individual Spores. Applied and Environmental Microbiology, 2014, 80, 345-353.	1.4	52
93	Analysis of the Loss in Heat and Acid Resistance during Germination of Spores of Bacillus Species. Journal of Bacteriology, 2014, 196, 1733-1740.	1.0	30
94	High Salinity Alters the Germination Behavior of Bacillus subtilis Spores with Nutrient and Nonnutrient Germinants. Applied and Environmental Microbiology, 2014, 80, 1314-1321.	1.4	58
95	Germination of Spores of Bacillus Species: What We Know and Do Not Know. Journal of Bacteriology, 2014, 196, 1297-1305.	1.0	376
96	Structural and Functional Analysis of the GerD Spore Germination Protein of Bacillus Species. Journal of Molecular Biology, 2014, 426, 1995-2008.	2.0	21
97	Monitoring of Commitment, Blocking, and Continuation of Nutrient Germination of Individual Bacillus subtilis Spores. Journal of Bacteriology, 2014, 196, 2443-2454.	1.0	21
98	Mechanism of killing of spores of <i>Bacillus anthracis</i> in a high-temperature gas environment, and analysis of DNA damage generated by various decontamination treatments of spores of <i>Bacillus anthracis</i> ,<i>Bacillus subtilis</i> and <i>Bacillus thuringiensis</i>. Journal of Applied Microbiology, 2014, 116, 805-814.	1.4	37
99	Interaction of Apurinic/Apyrimidinic Endonucleases Nfo and ExoA with the DNA Integrity Scanning Protein DisA in the Processing of Oxidative DNA Damage during Bacillus subtilis Spore Outgrowth. Journal of Bacteriology, 2014, 196, 568-578.	1.0	38
100	Chemical insights into dodecylamine spore lethal germination. Chemical Science, 2014, 5, 3320-3324.	3.7	5
101	Function of the SpoVAEa and SpoVAF Proteins of Bacillus subtilis Spores. Journal of Bacteriology, 2014, 196, 2077-2088.	1.0	35
102	High-Precision Fitting Measurements of the Kinetics of Size Changes during Germination of Individual Bacillus Spores. Applied and Environmental Microbiology, 2014, 80, 4606-4615.	1.4	3
103	Resistance of Bacterial Spores. , 2014, , 319-332.		10
104	Spore Resistance Properties. Microbiology Spectrum, 2014, 2, .	1.2	242
105	The Portable Chemical Sterilizer (PCS), D-FENS, and D-FEND ALL: Novel Chlorine Dioxide Decontamination Technologies for the Military. Journal of Visualized Experiments, 2014, , e4354.	0.2	4
106	Architecture and Assembly of the Bacillus subtilis Spore Coat. PLoS ONE, 2014, 9, e108560.	1.1	50
107	A novel <scp>RNA</scp> polymeraseâ€binding protein controlling genes involved in spore germination in <i><scp>B</scp>acillus subtilis</i>. Molecular Microbiology, 2013, 89, 113-122.	1.2	17
108	Isolation and characterization of <i>Bacillus subtilis</i> spores that are superdormant for germination with dodecylamine or Ca²⁺ -dipicolinic acid. Journal of Applied Microbiology, 2013, 114, 1109-1119.	1.4	11

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109	Expression Level of Bacillus subtilis Germinant Receptors Determines the Average Rate but Not the Heterogeneity of Spore Germination. Journal of Bacteriology, 2013, 195, 1735-1740.	1.0	25
110	Structural analysis of high pressure treated Bacillus subtilis spores. Innovative Food Science and Emerging Technologies, 2013, 17, 43-53.	2.7	46
111	Analysis of the germination kinetics of individual <i>Bacillus subtilis</i> spores treated with hydrogen peroxide or sodium hypochlorite. Letters in Applied Microbiology, 2013, 57, 259-265.	1.0	27
112	Topology and Accessibility of Germination Proteins in the Bacillus subtilis Spore Inner Membrane. Journal of Bacteriology, 2013, 195, 1484-1491.	1.0	40
113	Direct Analysis of Water Content and Movement in Single Dormant Bacterial Spores Using Confocal Raman Microspectroscopy and Raman Imaging. Analytical Chemistry, 2013, 85, 7094-7101.	3.2	21
114	Mobility of Core Water in Bacillus subtilis Spores by 2H NMR. Biophysical Journal, 2013, 105, 2016-2023.	0.2	35
115	Activity and Regulation of Various Forms of CwlJ, SleB, and YpeB Proteins in Degrading Cortex Peptidoglycan of Spores of Bacillus Species In Vitro and during Spore Germination. Journal of Bacteriology, 2013, 195, 2530-2540.	1.0	47
116	Observation of the dynamic germination of single bacterial spores using rapid Raman imaging. Journal of Biomedical Optics, 2013, 19, 011003.	1.4	16
117	Identification of New Proteins That Modulate the Germination of Spores of Bacillus Species. Journal of Bacteriology, 2013, 195, 3009-3021.	1.0	27
118	Numbers of Individual Nutrient Germinant Receptors and Other Germination Proteins in Spores of Bacillus subtilis. Journal of Bacteriology, 2013, 195, 3575-3582.	1.0	41
119	A conserved <scp>ClpP</scp>â€like protease involved in spore outgrowth in <i><scp>B</scp>acillus subtilis</i>. Molecular Microbiology, 2013, 90, 160-166.	1.2	10
120	Summer meeting 2013 - when the sleepers wake: the germination of spores of<i>Bacillus</i>species. Journal of Applied Microbiology, 2013, 115, 1251-1268.	1.4	121
121	The Clostridium perfringens Germinant Receptor Protein GerKC Is Located in the Spore Inner Membrane and Is Crucial for Spore Germination. Journal of Bacteriology, 2013, 195, 5084-5091.	1.0	42
122	Kinetics of Germination of Individual Spores of Geobacillus stearothermophilus as Measured by Raman Spectroscopy and Differential Interference Contrast Microscopy. PLoS ONE, 2013, 8, e74987.	1.1	19
123	Effects of Cortex Peptidoglycan Structure and Cortex Hydrolysis on the Kinetics of Ca ²⁺ -Dipicolinic Acid Release during Bacillus subtilis Spore Germination. Journal of Bacteriology, 2012, 194, 646-652.	1.0	40
124	Effects of the SpoVT Regulatory Protein on the Germination and Germination Protein Levels of Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 3417-3425.	1.0	32
125	Role of a SpoVA Protein in Dipicolinic Acid Uptake into Developing Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 1875-1884.	1.0	69
126	Crystal Structure of the Catalytic Domain of the Bacillus cereus SleB Protein, Important in Cortex Peptidoglycan Degradation during Spore Germination. Journal of Bacteriology, 2012, 194, 4537-4545.	1.0	33

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127	Effects of Sporulation Conditions on the Germination and Germination Protein Levels of Bacillus subtilis Spores. Applied and Environmental Microbiology, 2012, 78, 2689-2697.	1.4	69
128	Germination Protein Levels and Rates of Germination of Spores of Bacillus subtilis with Overexpressed or Deleted Genes Encoding Germination Proteins. Journal of Bacteriology, 2012, 194, 3156-3164.	1.0	40
129	Analysis of the Effects of a <i>gerP</i> Mutation on the Germination of Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 5749-5758.	1.0	35
130	Levels of Germination Proteins in Dormant and Superdormant Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 2221-2227.	1.0	50
131	Effects of wet heat treatment on the germination of individual spores of Clostridium perfringens. Journal of Applied Microbiology, 2012, 113, 824-836.	1.4	31
132	Alternative Excision Repair of Ultraviolet B- and C-Induced DNA Damage in Dormant and Developing Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 6096-6104.	1.0	23
133	Deactivation Analysis of Spores in a High Temperature Gas Using a Coupled Water Diffusion and Heat Transfer Model. , 2012, , .		0
134	Analysis of the Raman spectra of Ca2+-dipicolinic acid alone and in the bacterial spore core in both aqueous and dehydrated environments. Analyst, The, 2012, 137, 3683.	1.7	47
135	Resistance of Bacterial Spores to Chemical Agents. , 2012, , 121-130.		8
136	Dynamics of the assembly of a complex macromolecular structure â€“ the coat of spores of the bacterium <i>Bacillus subtilis</i>. Molecular Microbiology, 2012, 83, 241-244.	1.2	19
137	Analysis of the slow germination of multiple individual superdormant Bacillus subtilis spores using multifocus Raman microspectroscopy and differential interference contrast microscopy. Journal of Applied Microbiology, 2012, 112, 526-536.	1.4	29
138	Bacterial spore structures and their protective role in biocide resistance. Journal of Applied Microbiology, 2012, 113, 485-498.	1.4	203
139	Effects of Mn and Fe Levels on <i>Bacillus subtilis</i> Spore Resistance and Effects of Mn ²⁺ , Other Divalent Cations, Orthophosphate, and Dipicolinic Acid on Protein Resistance to Ionizing Radiation. Applied and Environmental Microbiology, 2011, 77, 32-40.	1.4	73
140	Germination of spores of Bacillales and Clostridiales species: mechanisms and proteins involved. Trends in Microbiology, 2011, 19, 85-94.	3.5	319
141	Rapid confocal Raman imaging using a synchro multifoci-scan scheme for dynamic monitoring of single living cells. Applied Physics Letters, 2011, 98, .	1.5	44
142	Effect of radioprotective agents in sporulation medium on Bacillus subtilis spore resistance to hydrogen peroxide, wet heat and germicidal and environmentally relevant UV radiation. Journal of Applied Microbiology, 2011, 110, 1485-1494.	1.4	20
143	Effects of Mn levels on resistance of Bacillus megaterium spores to heat, radiation and hydrogen peroxide. Journal of Applied Microbiology, 2011, 111, 663-670.	1.4	33
144	Analysis of the germination of individual Clostridium perfringens spores and its heterogeneity. Journal of Applied Microbiology, 2011, 111, 1212-1223.	1.4	40

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145	Germination proteins in the inner membrane of dormant <i>Bacillus subtilis</i> spores colocalize in a discrete cluster. Molecular Microbiology, 2011, 81, 1061-1077.	1.2	92
146	Characterization of bacterial spore germination using phase-contrast and fluorescence microscopy, Raman spectroscopy and optical tweezers. Nature Protocols, 2011, 6, 625-639.	5.5	123
147	Thermo-structural studies of spores subjected to high temperature gas environments. International Journal of Heat and Mass Transfer, 2011, 54, 755-765.	2.5	18
148	Monitoring of germination dynamics of multiple individual bacterial spores by multiple-trap Raman tweezers and differential interference contrast microscopy. , 2011, , .		0
149	Efficient Inhibition of Germination of Coat-Deficient Bacterial Spores by Multivalent Metal Cations, Including Terbium (Tb ³⁺). Applied and Environmental Microbiology, 2011, 77, 5536-5539.	1.4	18
150	Multifocus confocal Raman microspectroscopy for rapid single-particle analysis. Journal of Biomedical Optics, 2011, 16, 120503.	1.4	28
151	Extremely Variable Conservation of Â-Type Small, Acid-Soluble Proteins from Spores of Some Species in the Bacterial Order Bacillales. Journal of Bacteriology, 2011, 193, 1884-1892.	1.0	15
152	Role of the Nfo and ExoA Apurinic/Apyrimidinic Endonucleases in Radiation Resistance and Radiation-Induced Mutagenesis of Bacillus subtilis Spores. Journal of Bacteriology, 2011, 193, 2875-2879.	1.0	15
153	Kinetics of Germination of Wet-Heat-Treated Individual Spores of Bacillus Species, Monitored by Raman Spectroscopy and Differential Interference Contrast Microscopy. Applied and Environmental Microbiology, 2011, 77, 3368-3379.	1.4	44
154	Monitoring the Wet-Heat Inactivation Dynamics of Single Spores of Bacillus Species by Using Raman Tweezers, Differential Interference Contrast Microscopy, and Nucleic Acid Dye Fluorescence Microscopy. Applied and Environmental Microbiology, 2011, 77, 4754-4769.	1.4	30
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